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A geometric diagram showing a rectangle \$ABCD\$ with vertices \$A\$ (top-left), \$B\$ (top-right), \$C\$ (bottom-right), and \$D\$ (bottom-left). Diagonal \$AC\$ is drawn. Point \$E\$ lies on \$AC\$, and a line segment \$BE\$ is drawn perpendicular to \$AC\$. A circle passing through points \$B\$ and \$C\$ intersects the diagonal \$AC\$ again at point \$F\$. An arc centered at \$C\$ indicates an angle \$\alpha\$ between the tangent to the circle at \$C\$ and the line segment \$CF\$.

